

# ABSTRACT

**Title:** Case Study of Physiotherapy Treatment of Patient with Hemorrhagic Stroke

**Aim:** The aim of this thesis is to present a case study of a physiotherapy approach to a treatment of a patient with complications after a hemorrhagic stroke. The theoretical part of the thesis will focus on the pathology, risk factors and prevention. On the practical part I will present the case study with the patient's medical history, all the examinations done by me at the start and end of the treatments, day to day therapies and final results.

**Methods:** The practical section is based on the case of a 51-year-old male, who was diagnosed with a hemorrhagic stroke in 6/7/2017. The study consists of physiotherapeutic approaches for an initial kinesiological examination on the first day, followed by eight therapy sessions lasting half an hour each, and on the last day a final kinesiological examination. All methods used were non-invasive.

**Results:** The progress was notable during the ten sessions of therapy. The patient's gait has improved significantly in quality and quantity, the spasticity has improved and his ability to control the lower extremity and upper extremity. Although the results have shown great progress in the gait, he is still as dependent as before for his everyday life activities and still needs assistance while walking with the four-point cane.

**Conclusions:** The patient was motivated and very cooperative during our ten sessions. He was getting fatigued less and less by the exercises and by the gait trainings. He could see the improvement especially in the gait and it gave him confidence. The two weeks of therapies were not enough for this type of patient. He will need more training and therapies for him to gain more independence in his daily life activities.

**Keywords:** Hemorrhagic stroke, stroke, spasticity, hemiparesis, brain arteriovenous malformation, case study, physiotherapy.